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NOTICE OF ALLOWANCE AND FEE(S) DUE

26383

7590

06/03/2010

ROCKWELL COLLINS, INC. INTELLECTUAL PROPERTY DEPARTMENT 400 COLLINS ROAD NE M/S 124-323 CEDAR RAPIDS, IA 52498

EXAMINER				
PATEL, CHANDRAHAS B				
ART UNIT	PAPER NUMBER			
2464				

DATE MAILED: 06/03/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,000	03/26/2004	Fred D. Mabe	03CR119/KE	9012

TITLE OF INVENTION: NETWORK ROUTING PROCESS FOR REGULATING TRAFFIC THROUGH ADVANTAGED AND DISADVANTAGED NODES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence including ed below or directed oth	g the Patent, advance o	rders and notification of n	naintenance fees wil	ll be mailed to the current	nould be completed where correspondence address as arate "FEE ADDRESS" for	
	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Eagl.	c) Transmittal This	certificate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, must	
26383 7590 06/03/2010 ROCKWELL COLLINS, INC. INTELLECTUAL PROPERTY DEPARTMENT 400 COLLINS ROAD NE			I he	papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
M/S 124-323 CEDAR RAPID	S IA 52498					(Depositor's name)	
CEDTIN 10 II 1D	5, 111021,00					(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	I	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,000 TITLE OF INVENTION NODES	03/26/2004 N: NETWORK ROUTIN	NG PROCESS FOR RE	Fred D. Mabe GULATING TRAFFIC TI	HROUGH ADVAN	03CR119/KE TAGED AND DISADVA	9012 NTAGED	
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nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/03/2010	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
PATEL, CHA	NDRAHAS B	2464	370-229000	l			
"Fee Address" ind PTO/SB/47; Rev 03-C Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address')2 or more recent) attach ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	nge of Correspondence ' Indication form ed. Use of a Customer A TO BE PRINTED ON	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorned issted, no name will be THE PATENT (print or type data will appear on the part of	vely, e firm (having as a n gent) and the names rneys or agents. If no printed. be) atent. If an assignee assignment.	member a 2s of up to o name is 3e is identified below, the d	ocument has been filed for	
Please check the appropr	- 0 0 7		* *			oup entity 🗖 Government	
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
5. Change in Entity Sta a. Applicant claim	tus (from status indicated is SMALL ENTITY statu		☐ b. Applicant is no lone	ger claiming SMALI	LENTITY status. See 37 C	FR 1.27(g)(2).	
**	d Publication Fee (if requ	uired) will not be accepte	d from anyone other than t			he assignee or other party in	
Authorized Signature				Date			
				_			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the tions for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the DNOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com er, U.S. Patent and T. D THIS ADDRESS.	e public which is to file (an inutes to complete, includin ments on the amount of ti rademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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400 COLLINS RO.	AD NE	2464		
M/S 124-323 CEDAR RAPIDS,	IA 52498	DATE MAILED: 06/03/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 772 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 772 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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	Application No.	Applicant(s)
Alada a FAHa a Lillid	10/811,000	MABE ET AL.
Notice of Allowability	Examiner	Art Unit
	Chandrahas Patel	2464
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to 5/12/2010.		
2. The allowed claim(s) is/are 9-16 and 23-26.		
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
Certified copies of the priority documents have	e been received in Application No	
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 Notice of Informal E	Patant Application
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal F 6. ☐ Interview Summary 	
	Paper No./Mail Da	te .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🔲 Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
/Chandrahas Patel/ Examiner, Art Unit 2464		

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Art Unit: 2464

DETAILED ACTION

Allowable Subject Matter

1. Claims 9-16 and 23-26 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claim 9, the references teach all limitations of the claim except having one of the nodes calculate a measure of the degree to which it comprises an advantaged node; having an advantaged node increase one or more of the metrics of a plurality of pathways through the node entered into its routing table to form an updated routing table as a function of the measure of the degree to which it comprises an advantaged node.

Regarding claim 13, the references teach all limitations of the claim except having one or more of the nodes check to determine if they comprise partially disadvantaged nodes; having a partially disadvantaged node increase one or more of the metrics of a plurality of routing pathways through the node entered into a routing table in order to discourage all but essential traffic through the node and form an updated routing table.

Regarding claim 23, the references teach all limitations of the claim except having one or more of the nodes check to determine if they comprise partially disadvantaged nodes; having one or more of the nodes check to determine if they comprise advantaged nodes; having an advantaged node increase one or more of the metrics of a plurality of routing pathways through the advantaged node entered into a routing table by a first amount in order to discourage traffic through the node and form a first updated routing table; having a partially disadvantaged node increase one or more of the metrics of a plurality of routing pathways through the partially disadvantaged node entered into a routing table by a second amount in order to

discourage all but essential traffic through the partially disadvantaged node and form a second updated routing table.

This taken with other limitations of the dependent claims is considered novel and non-obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrahas Patel whose telephone number is (571)270-1211. The examiner can normally be reached on Monday through Thursday 7:30 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> /Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2464

Application/Control Number: 10/811,000

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/Chandrahas Patel/ Examiner, Art Unit 2464 Page 4